

**Amendments to the Specification:**

Please replace the first full paragraph on page 4 with the following amended paragraph:

The device 10 includes a light emitting system 14 and a light detection system 16 laterally spaced (not co-linear) with the light emitting system 14. The device 10 is preferably mounted externally to a sidewall 18 of a flow conduit, such as smokestack 20. The smokestack 20 may be modified for mounting of the device 10 in a manner which enables optical communication between the interior of the smokestack and the light emitting system 14 and the light detecting system 16. For example, the smokestack may have one or more apertures 21 for enabling optical access for the light emitting system 14 and the light detecting system 16 to the interior of the smokestack ~~[[18]]~~ 20.